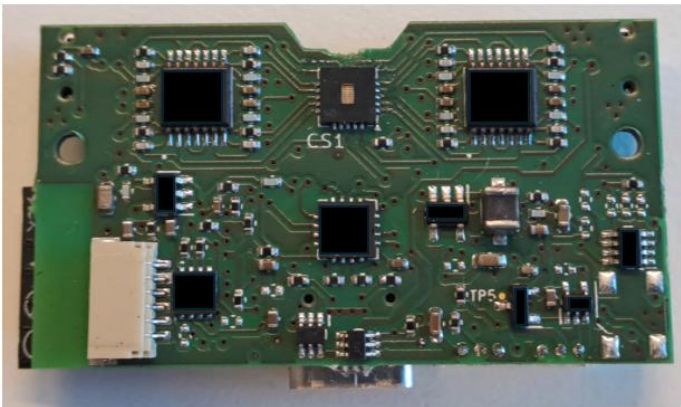


Nibble™ PCBA 2.0

ChipSense™ Evaluation Device

Broadband Hyperspectral fingerprint data capturing module, including:

- Hyperspectral Sensor ChipSense™ 2.x
- Electronics front/back end
- Light source drivers



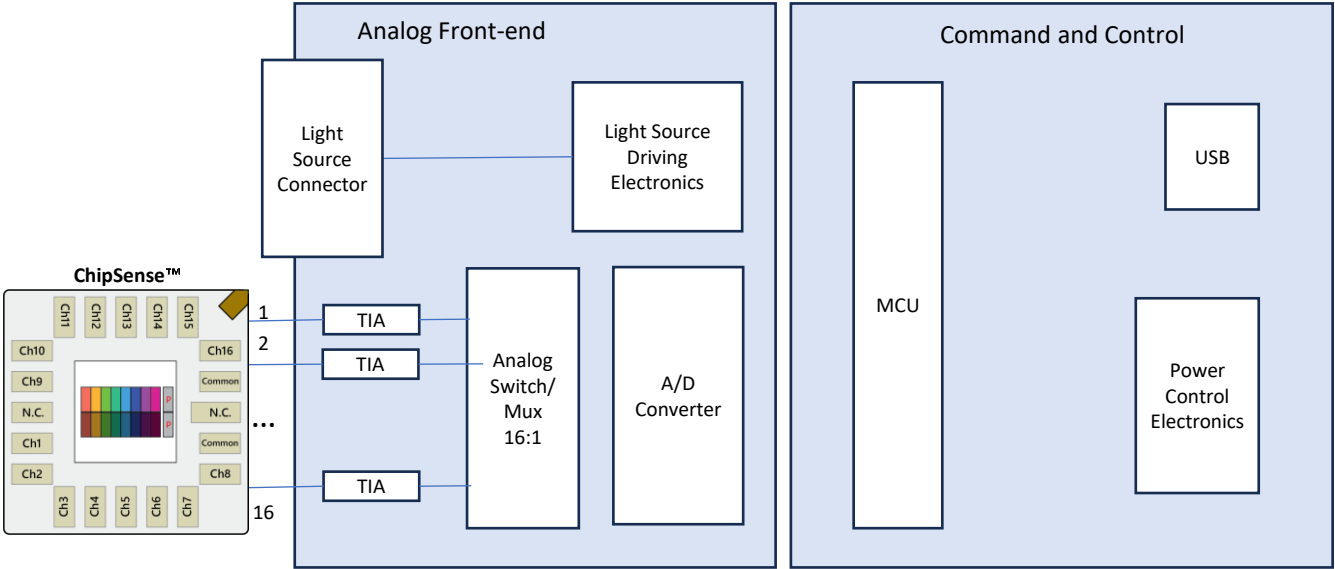
Compatible with SpectraByte™ (Desktop app) and SpectraWeb™ (Browser app)

Parameter	Unit	Specifications
Typical use case/application		Hyperspectral fingerprint data capturing
Certifications		CE/FCC (see Remark 1)
ChipSense™ product on-board		2.1-16
Wavelength range configuration options		None
Wavelength range configuration Full Range	nm	500-1700
Light Source Type support		LED/Filament
Light Source max current	mA	150
Light Source max voltage	V	5
Light Source dimmable		yes, 64 levels
Light Source Operation Mode		Current driven, Continuous/Triggered
Signal acquisition method		Sequential
Acquisition Time per Channel Range	ms	0.5-192
Max Total Noise at 1Hz	pA/rtHz	3
Optical window dimension	mm	1.2x1
Wired Connectivity		USB-C / 6 pole SH
USB-C Protocol		USB serial port (115.2 kbps to 921.6 kbps)
6 pole SH protocol		Default: RS485 (115.2 kbps) HW enabled: UART (115.2 kbps up to 921.6 kbps)
Wireless Connectivity		Wi-Fi (2.4 GHz)
Power supply		DC (USB) or External Battery
Voltage Supply	V	3.7 - 5.1
Current Consumption Stand-by	mA	60 (Radio Disabled) 130(Radio Enabled)
Size (l x w x h)	mm	46.5 x 26.5 x 9
Recommended Operating Temperature	°C	10 - 40
Operating temperature	°C	0 - 50
Accessories delivered in package		USB-C Cable
Software companion		SpectraByte, SpectraWeb, FW update tool
Remarks		1 - WiFi not certified CE/FCC

Nibble™ PCBA 2.0

ChipSense™ Evaluation Device

Block Diagram



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